



REPORT PURSUANT TO SECTION 28a OF THE DANISH SECURITIES TRADING ACT

Copenhagen, Denmark; June 2, 2010 – Pursuant to Section 28a of the Danish Securities Trading Act, Genmab A/S (OMX: GEN) shall make public information on transactions by managerial employees and their related parties involving Genmab shares and related instruments, as follows:

Name: Michael B. Widmer
Reason: Member of the Board of Directors
Issuer: Genmab A/S
ID code/ ISIN: DK0010272202
Description: Warrants
Transaction: Grant
Trading date: June 2, 2010
Market: NASDAQ OMX Copenhagen A/S
Number: 15,000
Value: DKK 377,250

Name: Anders Gersel Pedersen
Reason: Member of the Board of Directors
Issuer: Genmab A/S
ID code/ ISIN: DK0010272202
Description: Warrants
Transaction: Grant
Trading date: June 2, 2010
Market: NASDAQ OMX Copenhagen A/S
Number: 7,500
Value: DKK 188,625

Name: Karsten Havkrog Pedersen
Reason: Member of the Board of Directors
Issuer: Genmab A/S
ID code/ ISIN: DK0010272202
Description: Warrants
Transaction: Grant
Trading date: June 2, 2010
Market: NASDAQ OMX Copenhagen A/S
Number: 7,500
Value: DKK 188,625

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Name: Burton G. Malkiel
Reason: Member of the Board of Directors
Issuer: Genmab A/S
ID code/ ISIN: DK0010272202
Description: Warrants
Transaction: Grant
Trading date: June 2, 2010
Market: NASDAQ OMX Copenhagen A/S
Number: 7,500
Value: DKK 188,625

Name: Hans Henrik Munch-Jensen
Reason: Member of the Board of Directors
Issuer: Genmab A/S
ID code/ ISIN: DK0010272202
Description: Warrants
Transaction: Grant
Trading date: June 2, 2010
Market: NASDAQ OMX Copenhagen A/S
Number: 7,500
Value: DKK 188,625

Name: Nedjad Losic
Reason: Member of the Board of Directors
Issuer: Genmab A/S
ID code/ ISIN: DK0010272202
Description: Warrants
Transaction: Grant
Trading date: June 2, 2010
Market: NASDAQ OMX Copenhagen A/S
Number: 7,500
Value: DKK 188,625

Name: Tom Vink
Reason: Member of the Board of Directors
Issuer: Genmab A/S
ID code/ ISIN: DK0010272202
Description: Warrants
Transaction: Grant
Trading date: June 2, 2010
Market: NASDAQ OMX Copenhagen A/S
Number: 7,500
Value: DKK 188,625

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Name: Daniel Bruno
Reason: Member of the Board of Directors
Issuer: Genmab A/S
ID code/ ISIN: DK0010272202
Description: Warrants
Transaction: Grant
Trading date: June 2, 2010
Market: NASDAQ OMX Copenhagen A/S
Number: 7,500
Value: DKK 188,625

Name: Lisa N. Drakeman
Reason: President, Chief Executive Officer and member of the Board of Directors
Issuer: Genmab A/S
ID code/ ISIN: DK0010272202
Description: Warrants
Transaction: Grant
Trading date: June 2, 2010
Market: NASDAQ OMX Copenhagen A/S
Number: 120,000
Value: DKK 3,018,000

Name: Jan G. J. van de Winkel
Reason: President, Research & Development and Chief Scientific Officer
Issuer: Genmab A/S
ID code/ ISIN: DK0010272202
Description: Warrants
Transaction: Grant
Trading date: June 2, 2010
Market: NASDAQ OMX Copenhagen A/S
Number: 70,000
Value: DKK 1,760,500

Name: David A. Eatwell
Reason: Chief Financial Officer
Issuer: Genmab A/S
ID code/ ISIN: DK0010272202
Description: Warrants
Transaction: Grant
Trading date: June 2, 2010
Market: NASDAQ OMX Copenhagen A/S
Number: 70,000
Value: DKK 1,760,500

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The exercise price for each warrant is DKK 46.74. Each warrant entitles the owner to subscribe one share of nominally DKK 1. On the basis of an exercise price of DKK 46.74 and by application of the Black-Scholes formula, the average value of each warrant can be calculated as DKK 25.15 based on an interest rate of 2.55% and the historical volatility of Genmab A/S shares calculated at 59.63%.

About Genmab A/S

Genmab is a leading international biotechnology company focused on developing fully human antibody therapeutics for the potential treatment of cancer. Genmab's world class discovery and development teams are using cutting-edge technology to create and develop products to address unmet medical needs. Our primary goal is to improve the lives of patients who are in urgent need of new treatment options. For more information on Genmab's products and technology, visit www.genmab.com.

This Stock Exchange Release contains forward looking statements. The words "believe", "expect", "anticipate", "intend" and "plan" and similar expressions identify forward looking statements. Actual results or performance may differ materially from any future results or performance expressed or implied by such statements. The important factors that could cause our actual results or performance to differ materially include, among others, risks associated with product discovery and development, uncertainties related to the outcome and conduct of clinical trials including unforeseen safety issues, uncertainties related to product manufacturing, the lack of market acceptance of our products, our inability to manage growth, the competitive environment in relation to our business area and markets, our inability to attract and retain suitably qualified personnel, the unenforceability or lack of protection of our patents and proprietary rights, our relationships with affiliated entities, changes and developments in technology which may render our products obsolete, and other factors. For a further discussion of these risks, please refer to the section "Risk Management" in Genmab's Annual Report, which is available on www.genmab.com. Genmab does not undertake any obligation to update or revise forward looking statements in this Stock Exchange Release nor to confirm such statements in relation to actual results, unless required by law.

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